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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
09/894,203	09/894,203 06/28/2001		Ichiro Tomohiro	299002053200	7078
25226	7590	11/18/2004		EXAMINER	
MORRISO 755 PAGE N		ERSTER LLP	CERVETTI, DAVID GARCIA		
PALO ALTO, CA 94304-1018				ART UNIT	PAPER NUMBER
				2136	

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of tor many be available under the provision of 3°C R*1 139(a), in no event, however, may a raply be timely filed Extensions of tor many be available under the provision of 3°C R*1 139(a), in no event, however, may a raply be timely filed Extensions of or reply septicide above is less than thinty (50) days, a raply which he statutory minimum of thinty (30) days will be considered linely, If No pared for reply septicide above is less than thinty (50) days, a raply which he statutory minimum of thinty (30) days will be considered linely, If No pared for reply septicide above, is less than thinty (50) days, a raply which he statutory minimum of the mailing date of this communication, the mailing date of this communication, the provision of the provision o		Application No.	Applicant(s)					
David G. Cervetti 2136 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Sementors controlling has religious more than processors of JCR 1.136(a). In no event, however, may a reply be limely filed Sementors controlling the religious more than processors of JCR 1.136(a). In no event, however, may a reply be limely filed Sementors controlling the religious more than the controlling and JCR 1.136(a). In no event, however, may a reply be limely filed If the period for reply a specified above is leas than their (90) days, a reply with the saturation and reply a specified above is leas than their (90) days, and with express (WoMNHs from the maining date of this communication of the processor and the replacement of the processor and the replacement of the processor of the maining date of this communication, even if simely filed, may reduce any sense patient the adjustment. See 37 CFR 1.70(b). Status 1) Responsive to communication (s) filed on 28 June 2001. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 6) Claim(s) is/are allowed. 7) Claim(s) is/are objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 28 June 2001 is/are: a) accepted or b) Disposited to See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the draw		09/894,203	TOMOHIRO, ICHIRO					
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAIL INC DATE OF THIS COMMUNICATION. - and SIX (6) MONTHS from the mailing date of this communication. - if the period for reply specified active, the mailing date of this communication. - if the period for reply specified active, the mailing date of this communication. - if the period for reply specified active, the mailing date of this communication. - if the period for reply specified active, the mailing date of this communication. - if the period for reply specified active is less than their (5) (3) days will be considered timely. - if the period for reply specified active is less than their common statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication, and the specified active them there emotive is after the mailing date of this communication, even if timely field, may reside daily searched patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filed on 28 June 2001. 2a) □ This action is FINAL. 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to. 8) □ Claim(s) is/are objected to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. Application Papers 9) □ The proving specification is objected to the transition of the drawing(s) behalf in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office A								
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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: figure 1, numbers 18b, 104; figure 2, numbers 23, 203, 201.

Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The abstract of the disclosure is objected to because it exceeds 150 words in length. Correction is required. See MPEP § 608.01(b).

The disclosure is objected to because of the following informalities: reference character "12" has been used to designate both "memory region" (page 22, lines 5, 7, 14, page 25, line 5) and "security release key" (page 29, line 15).

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35

U.S.C. 102 that form the basis for the rejections under this section made in this

Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 3, 6, 9, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kasai et al.

Regarding claim 1, Kasai et al. teach a semiconductor storage device having a security function for imposing limitation on data rewriting (column 1, lined 18-28, column 3, lines 42-59), the semiconductor storage device comprising: at least one non-volatile memory cell array block which is capable of receiving concurrent electrical erasure (column 5, lines 25-37); at least one memory region, each one of said at least one memory region being provided in the at least one memory cell array block, for storing a security release key (column 1, lines 61-67, column 2, lines 1-10, column 5, lines 22-24); at least one non-volatile storage means for storing a security registration lock corresponding to each of the at least one memory cell array block (column 2, lines 32-50); a determination circuit for comparing a value which is generated based on the security registration lock to determine whether or not to grant release of the security

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function (column 2, lines 21-32, 56-67, column 3, lines 1-13); and a memory cell array data output switching circuit for, when an output signal from the determination circuit indicates a matching result of comparison (column 5, lines 38-52) between the value which is generated based on the security release key and the value which is generated based on the security registration lock, permitting data which is read from a corresponding one of the at least one memory cell array block to be externally output (column 5, lines 52-67, column 6, lines 1-3).

Regarding claim 2, Kasai et al. teach a semiconductor storage device according to claim 1, wherein: the semiconductor storage device further comprises at least one register for retaining an output signal output from the determination circuit (column 2, lines 32-50); and when an output signal output from the at least one register indicates that release of the security function is to be granted, the memory cell array data output switching circuit permits data which is read from a corresponding one of the at least one memory cell array block to be externally output.

Regarding claim 3, Kasai et al. teach a semiconductor storage device according to claim 1, further comprising instruction interpretation means (column 2, lines 57-67, column 3, lines 1-13) for interpreting an externally-input setting instruction to write at least one of the security release key and the security registration lock into the at least one memory region or the at least one non-volatile storage means, respectively.

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Regarding claim 6, Kasai et al. teach a semiconductor storage device according to claim 1, which lacks means for reading the security release key and the security registration lock (column 3, lines 53-55).

Regarding claim 9, Kasai et al. teach a semiconductor storage device according to claim 1, further comprising a flag indicating that the security release key has been set (column 5, lines 29-33), wherein the flag is set automatically or manually after the security release key is written, thereby prohibiting additional writing to the corresponding one of the at least one memory cell array block.

Regarding claim 10, Kasai et al. teach a semiconductor storage device according to claim 1, wherein a wait operation is performed while writing the security release key to the at least one memory region (column 6, lines 11-35).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kasai et al. as applied to claim 2 above, and further in view of Matsuo et al.

Kasai et al. teach the limitations as set forth under claim 2 above.

However, Kasai et al. do not disclose expressly that a semiconductor storage device according to claim 2, wherein the determination circuit compares the value which is generated based on the security release key against the value

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which is generated based on the security registration lock for each of the at least one memory cell array block, and results of comparison are collaterally written in the at least one register.

Matsuo et al. teach a semiconductor storage device according to claim 2, wherein the determination circuit compares the value which is generated based on the security release key against the value which is generated based on the security registration lock (column 3, lines 45-53, column 4, lines 60-67, column 5, lines 1-50) for each of the at least one memory cell array block, and results of comparison are collaterally written in the at least one register.

Kasai et al. and Matsuo et al. are analogous art because they are from the same field of endeavor, semiconductor storage devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to have a determination circuit to compare values and to store the result of the comparison to prevent data from being erased by mistake.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Matsuo et al. with the system of Kasai et al. for the benefit of semiconductor storage devices to obtain the invention as specified in claim 4.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kasai et al. as applied to claim 1 above, and further in view of Arai.

Kasai et al. teach the limitations as set forth under claim 1 above.

However, Kasai et al. do not disclose expressly a semiconductor storage device according to claim 1, further comprising a unidirectional conversion circuit or an

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encryption circuit, wherein results of converting the security release key and the security registration lock by means of the unidirectional conversion circuit or the encryption circuit are written to the at least one memory region and the at least one non-volatile storage means, respectively.

Arai teaches a semiconductor storage device according to claim 1, further comprising a unidirectional conversion circuit or an encryption circuit (column 3, lines 29-55, figure 1, reference character 102), wherein results of converting the security release key and the security registration lock by means of the unidirectional conversion circuit or the encryption circuit are written to the at least one memory region and the at least one non-volatile storage means, respectively (column 1, lines 33-43).

Kasai et al. and Arai are analogous art because they are from the same field of endeavor, semiconductor storage devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to include a conversion circuit or an encryption circuit to a semiconductor storage device to provide a secure processing environment in which confidential information can be securely processed.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Arai with the system of Kasai et al. for the benefit of semiconductor storage devices to obtain the invention as specified in claim 5.

Claims 7, 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kasai et al. as applied to claim 1 above, and further in view of Araki et al.

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Regarding claim 7, Kasai et al. teach the limitations as set forth under claim 1 above. However, Kasai et al. do not disclose expressly a semiconductor storage device according to claim 1, wherein: the at least one non-volatile storage means is a one-time programmable ROM which prohibits rewriting and erasure; and rewriting and erasure are prohibited after the security registration lock is written.

Araki et al. teach a semiconductor storage device according to claim 1, wherein: the at least one non-volatile storage means is a one-time programmable ROM (column 7, lines 66-68, column 8, lines 1-6) which prohibits rewriting and erasure; and rewriting and erasure are prohibited after the security registration lock is written.

Kasai et al. and Araki et al. are analogous art because they are from the same field of endeavor, semiconductor storage devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use one-time programmable read only memory ("ROM") because it does not allow re-writing or erasure.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Araki et al. with the system of Kasai et al. for the benefit of semiconductor storage devices to obtain the invention as specified in claim 7.

Regarding claim 8, Kasai et al. teach the limitations as set forth under claim 1 above. Kasai et al. also teach a semiconductor storage device according to claim 1, wherein: the semiconductor storage device has a non-volatile lock

function for locking the semiconductor storage device to prohibit rewriting and erasure after writing of the security registration lock has been performed (column 1, lines 12-30). However, Kasai et al. do not disclose expressly a semiconductor storage device according to claim 1, wherein: the at least one non-volatile storage means is a one-time programmable ROM which prohibits rewriting and erasure.

Araki et al. teach a semiconductor storage device according to claim 1, wherein: the at least one non-volatile storage means is a one-time programmable ROM which prohibits rewriting and erasure (column 7, lines 66-68, column 8, lines 1-6).

Kasai et al. and Araki et al. are analogous art because they are from the same field of endeavor, semiconductor storage devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use one-time programmable read only memory ("ROM") because it does not allow re-writing or erasure and to use a non-volatile lock function.

Therefore, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Araki et al. with the system of Kasai et al. for the benefit of semiconductor storage devices to obtain the invention as specified in claim 8.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David G. Cervetti whose telephone number is (571) 272-5861. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on (703)305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EMMANUEL L. MOISE
PRIMARY EXAMINER

DGC